

Neurodiagnostic Personnel Qualifications

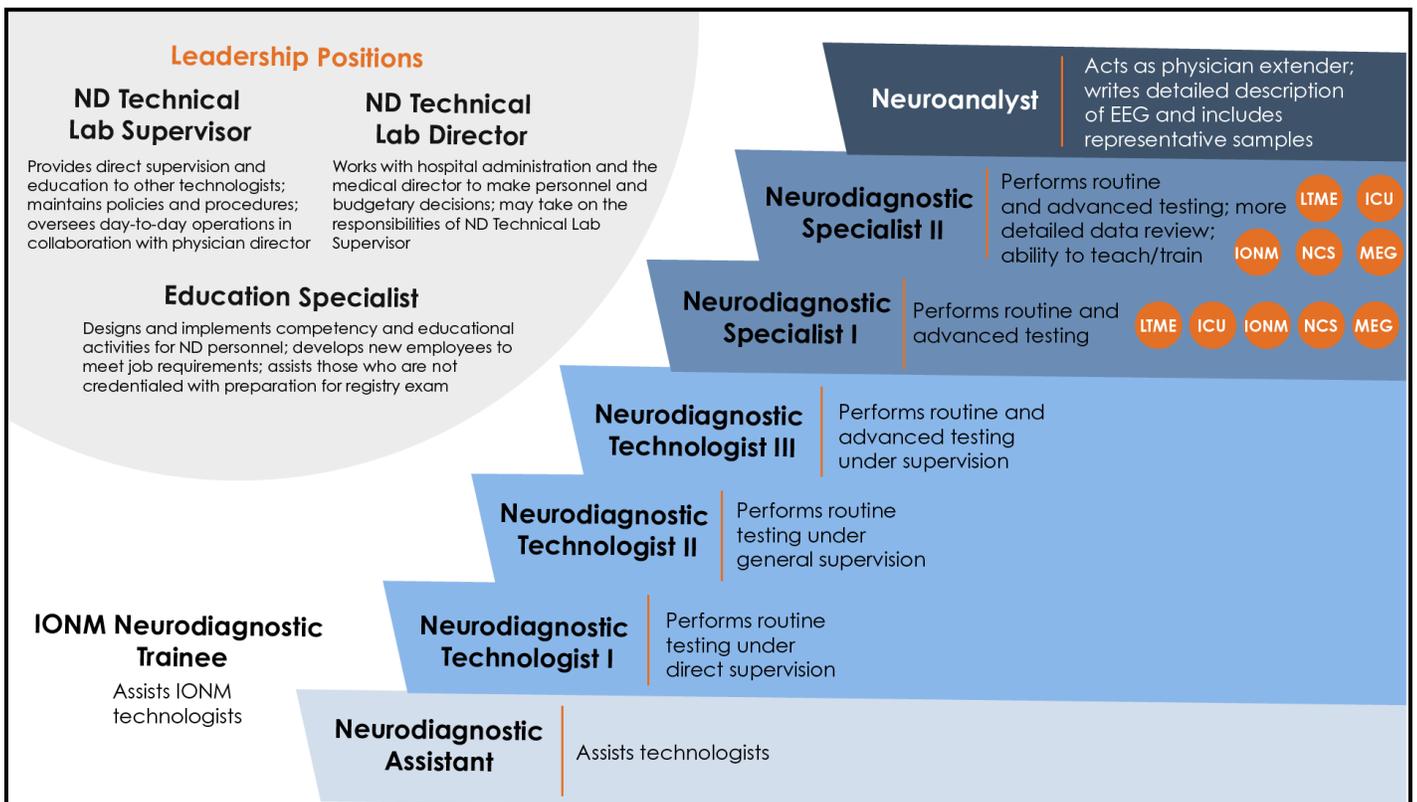
Every patient deserves quality neurological care.

Neurophysiologic procedures should be performed by qualified and appropriately trained professionals for optimal patient care. ASET partnered with the nationally recognized societies listed below to define the recommended levels of education, certification, experience, and ongoing education appropriate for neurodiagnostic personnel.

- [American Clinical Neurophysiology Society \(ACNS\)](#)
- [American Society of Neurophysiological Monitoring \(ASNM\)](#)
- [American Association of Neuromuscular & Electrodiagnostic Medicine \(AANEM\)](#)

The position statement¹ that resulted from this collaborative effort also outlines suggested job titles, responsibilities, and levels of supervision for neurodiagnostic staff.

Responsibilities of Neurodiagnostic Personnel



Recommended Education and Experience by Position

Neurodiagnostic Assistant Qualifications Summary

Position Title	Education/Certification	Experience
Neurodiagnostic Assistant (formerly Neurodiagnostic Lab Assistant or Patient Observer)	High school diploma or equivalent; ASET online course, LTM 100: Introduction to LTM for EMU Personnel Carroll et al. (2021)	At least 20 hours of EMU or ND lab observation^^
^^under the direction of a credentialed ND technologist (R. EEG T., CLTM, or NA-CLTM).		

Technologist Qualifications Summary by Position

A= associate degree **B**= bachelor's degree **C**= CAAHEP ND program graduate **CE**= CAAHEP ND program enrolled **B****= bachelor's or R. EEG T. or R. EP T.

Position Title	Minimum Education	Preferred Education	Credential Status	Experience
Neurodiagnostic Technologist I	CE	A	within 5 years of hire	internal training program; must meet hospital standards for all patient care workers <i>*see ASET Core Curriculum for comprehensive training support</i>
Neurodiagnostic Technologist II	C	A	board eligible (ABRET, AAET, or ABEM); should obtain credential within 3 years of hire	12 months of patient care in the field with supervised experience performing the primary testing modality
Neurodiagnostic Technologist III	C	A	credentialed (ABRET, AAET, or ABEM)	12 months of patient care in the field with supervised experience performing the primary testing modality

Technologist Qualifications Summary Continued

A= associate degree **B**= bachelor's degree **C**= CAAHEP ND program graduate **CE**= CAAHEP ND program enrolled **B****= bachelor's or R. EEG T. or R. EP T.

Position Title	Minimum Education	Preferred Education	Credential Status	Experience
IONM Neurodiagnostic Trainee (Technologist I)	B**		R. EEG T. or R. EP T.; CNIM within 5 years	6 months of patient care experience
Neurodiagnostic Technology Specialist I	A or C	B	credentialed (ABRET, AAET, or ABEM)	1 year of experience after credential; 3 years in the field
Neurodiagnostic Technology Specialist I LTME	A or C	B	R. EEG T.	1 year of experience after credential; 3 years in the field including at least 1 year of experience in LTM for epilepsy
Neurodiagnostic Technology Specialist I ICU cEEG	A or C	B	R. EEG T.	1 year of experience after credential; 3 years in the field including at least 1 year of experience in the ICU/cEEG setting
Neurodiagnostic Technology Specialist I IONM	A or C	B	CNIM	1 year in an IONM setting
Neurodiagnostic Technology Specialist I NCS	A or C	B	R.NCS.T or CNCT	4 years after credential; 5 years total in performing NCS; training in performing advanced NCS
Neurodiagnostic Technology Specialist I MEG	A or C	B	CMEG eligible	3+ years of experience in the field, 6 months MEG experience, including performance of 75 MEGs for epilepsy

Technologist Qualifications Summary Continued

A= associate degree **B**= bachelor's degree **C**= CAAHEP ND program graduate **CE**= CAAHEP ND program enrolled **B****= bachelor's or R. EEG T. or R. EP T.

Position Title	Minimum Education	Preferred Education	Credential Status	Experience
Neurodiagnostic Technology Specialist II	A or C	B	credentialed (ABRET, AAET, or ABEM)	3 years of experience after credential; 5 years in the field
Neurodiagnostic Technology Specialist II LTME	A or C	B	CLTM	3 years of experience after credential; 5 years in the field
Neurodiagnostic Technology Specialist II ICU/cEEG	A or C	B	CLTM	3 years of experience after credential; 5 years in the field
Neurodiagnostic Technology Specialist II IONM	A or C	B	CNIM	3 years of experience after credential; 5 years in the field
Neurodiagnostic Technology Specialist II NCS	B		R.NCS.T or CNCT	5 years after CNCT or R.NCS.T credential; 6 years of experience performing NCS
Neurodiagnostic Technology Specialist II MEG	A or C	B	CMEG	3 years of experience in EEG; 2 years of experience in MEG
Neuroanalyst	A or C	B	minimum: R. EEG T. and CLTM, preferred: NA-CLTM	5 years of experience in LTM after CLTM credential

Leadership and Education Positions

A= associate degree **B**= bachelor's degree **C**= CAAHEP ND program graduate

B***= Bachelor of Health Sciences **B††** = CoA-NDT CAAHEP-accredited bachelor's program

D= advanced degree (i.e., master's or doctorate)

Position Title	Education		Credentials		Experience
	Minimum	Preferred	Minimum	Preferred	
Neurodiagnostic Technical Lab Supervisor	A or C	B	1 neurodiagnostic technology credential	2+ neurodiagnostic technology credentials ^{^^^}	5 years minimum experience in neurodiagnostics
Neurodiagnostic Education Specialist	B	B†† or D	1 neurodiagnostic technology credential ^{^^^}	2+ neurodiagnostic technology credentials ^{^^^}	5 years minimum experience in neurodiagnostics and previous teaching experience
Neurodiagnostic Technical Lab Director	B***		1 neurodiagnostic credential required if job description includes performing neurodiagnostic studies		5 years of experience and 3 years of previous supervisory experience
^{^^^} modality-specific (i.e., if supervising LTM, needs CLTM; if providing instruction in EEG, needs R. EEG T., etc.)					

Non-Physician Neurophysiologist Positions

Recommendations for advanced practitioners and other qualified health care providers do not supersede applicable state law. Refer to the [position statement](#) for details.

Au.D = Doctor of Audiology **D.ABNM** = Diplomate of the American Board of Neurophysiologic Monitoring

Position Title	Education / Certification		Experience
	Minimum	Preferred	
Audiologist (lab)	Au.D or holds current board certification		Has performed the minimum number of studies required by federal, state, institutional, and/or certifying organization regulations; Experience sufficient to have gained mastery of all aspects of testing.
Non-Physician Neurophysiologist Performing IONM	D. ABNM + Doctoral degree* <i>*in physical science, life science, or clinical allied health from an accredited educational institution. Education must include successful completion of graduate-level neurophysiology and anatomy training.</i>		IONM experience including case logs that document a minimum of 300 cases monitored with the primary responsibility for the clinical tasks in which the provider will participate.
Senior Non-Physician Neurophysiologist Performing IONM	D. ABNM + Doctoral degree <i>in physical science, life science, or clinical allied health from an accredited educational institution. Education must include successful completion of graduate-level neurophysiology and anatomy training.</i>		At least 7 years of clinical activity in IONM is required. Must meet requirements of non-physician neurophysiologist performing IONM as outlined above.

Physician Positions

All physician positions require a valid state medical license. The descriptions below are brief summaries of education and certification requirements and do not provide an exhaustive list of qualifications. See the full [joint position statement](#) for more details.

M.D. = Doctor of Medicine **D.O.** = Doctor of Osteopathic Medicine **ABPN** = American Board of Psychiatry and Neurology **ABCN** = American Board of Clinical Neurophysiology **ABEM** = American Board of Electrodiagnostic Medicine **ACGME** = Accreditation Council for Graduate Medical Education **AANEM** = American Association of Neuromuscular and Electrodiagnostic Medicine

Physician positions fall into the following categories and require different levels of supervision:

- **Physician** – Physicians (M.D., D.O., or foreign equivalent) who are neither neurologists, physiatrists, nor clinical neurophysiologists.
- **Neurologist** or **Physiatrist**– Board-certified physiatrist or neurologist without board certification in clinical neurophysiology.
- **Clinical Neurophysiologist** – M.D. or D.O. who has successfully completed an ACGME-accredited fellowship in clinical neurophysiology or equivalent training prior to the establishment of accredited training programs as recognized by board certification (ABPN-CN, ABCN, ABEM).
- **Subspecialty Neurologist or Physiatrist** – M.D. or D.O. who has successfully completed an ACGME-accredited fellowship in clinical neurophysiology (or equivalent training prior to the establishment of accredited training programs as recognized by board certification [ABPN-CN, ABCN, ABEM]) and ACGME-accredited residency in physical medicine and rehabilitation or neurology.
- **Neurodiagnostic Medical Director** – M.D. or D.O. with ABPN or ABPMR board certification, case experience equal to or greater than that required for Subspecialty Neurologist or Physiatrist, and board certification in at least one area of clinical neurophysiology (ABPN-CN, ABCN, ABEM). [AANEM Medical Directors](#) shall meet additional qualifications.

The tables above are a summary and not an exhaustive list of requirements. Please refer to the detailed recommendations in the jointly published position statement, which can be found here: [Guidelines for Qualifications of Neurodiagnostic Personnel](#).

Reference

1. Lopez JR, Ahn-Ewing J, Emerson R, et al. Guidelines for qualifications of neurodiagnostic personnel: a joint position statement of the American Clinical Neurophysiology Society, the American Association of Neuromuscular & Electrodiagnostic Medicine, the American Society of Neurophysiological Monitoring, and ASET – The Neurodiagnostic Society. *The Neurodiagnostic Journal*. 2023; 63(1): 14-46. <https://www.tandfonline.com/doi/abs/10.1080/21646821.2023.2183008>.